Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Detailed Estimated for Improvements to Road at Chikkabanavara Railway station to Geleyara balaga Ganesha Temple, in Shettyhalli Sub Division, Ward No-12.

Est .Cost Rs. 48.00 Lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M2100-1.1. Earth work in excavation for foundation of structures as per drawing and Technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. I. ordinary soil – A. Manual means a) Depth upto 3m MORTH Specification No. 304, Page No. 220/ Item No. 2.7.1/ PWD SR 2011-12	Cum							
	For Retaining Wall		1	15.00	13.00	3.00	585.00		
							585.00	87.16	50986.00
	Basic Rate	80.70							
	Area Weightage 8%	6.46							
		87.16							
2	KSRRB M2100-1.1. Earth work in excavation for foundation of structures as per drawing and Technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. I. ordinary soil – A. Manual means a) Depth upto 3m to 6m depth MORTH Specification No. 304, Page No. 220/ Item No. 2.7.2/ PWD SR 2011-12	Cum							
	For Foundation		2	15.00	2.80	1.50	126.00		
							126.00	112.05	14118.30
	Basic Rate	103.75							
	Area Weightage 8%	8.30							
		112.05							
3	KSRRB-2.6. Providing and filling sand in foundation upto plinth to required depth for soil bed treatment including watering ramming with lead upto 50m. And lift upto 1.5m complete as per specifications Specification No. KBC 2.10.2 Page No. 6/ Item No. 2.13/ PWD SR 2011-12	Cum							
	For Retaining Wall		2	15.00	2.80	0.15	12.60		
							12.60	1279.42	16121.89
	Basic Rate	1,207.00							
	Area Weightage 6%	72.42							
		1,279.42							

4	KSRB 2.8 Filling in foundation with granite/trap broken metal 100mm. and down size. with approved sand including hand packing, ramming watering, including cost of all materials and labour with lead upto 50m. And lift of 1.5 m. complete as per specifications Specification No. KBS Page No. 6/ Item No. 2.15/ PWD SR 2011-12	Cum							
	For Retaining Wall		2	15.00	2.80	0.30	25.20		
							25.20	1122.54	**28288.00**
	Basic Rate	1,059.00							
	Area Weightage 6%	63.54							
		1,122.54							
5	KSRB 4.1.2 Providing and laying in position plain cement concrete of nominal mix M 10 with OPC cement @ 220kgs. with 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms thick well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS : 4.1, 4.2 Page No. 12/ Item No. 4.2/ PWD SR 2011-12								
	For Retaining Wall		2	15.00	1.60	0.20	9.60		
			1	13.00	2.60	0.20	6.76		
							16.36	4105.80	**67171.00**
	Basic Rate	3873.40							
	Area Weightage 6%	232.40							
	Total	**4105.80**							
6	KSRB 4.2.2 Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs. with with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase flotals retaining walls, podium walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts struts, buttresses, string or facing courses, parapet coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials labour, HOM of machinery, curing, complete as per specifications Specification No. KBS 4.1, 4.5 & 13/4.11	Cum							
	For Abutment		2	15.00	(2.5+0.45)/2	6.50	287.63		
	For Parapet Wall		2	15.00	0.40	1.00	12.00		
							299.63	5213.93	**1562223.00**
	Basic Rate	4918.80							
	Area Weightage 6%	295.13							
	Total	**5213.93**							

7	KSRB 4.6.2: providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46/ PWD SR 2011-12	Q							
	For Retaining Wall						**179.78**	7211.75	**1296493.00**
	Basic Rate	6803.54							
	Area Weightage 6%	408.21							
	Total	**7211.75**							
8	KSRB 4-6.9 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters buttresses, plinth and string courses cost of all materials, labour complete as per specification Specification No. KSRB 4.6.9 Page No. 57/ Item No. 4.36/ PWD SR 2011-12	Cum							
	Walls		2x2	15.00		7.50	450.00		
							450.00	544.84	**245178.00**
	Basic Rate	514.00							
	Area Weightage 6%	30.84							
		544.84							
9	Providing & laying reinforced cement concrete pipe NP2 for culverts including pointing ends, & fixing collars with CM 1:2 including cost of all materials, labour, curing complete as per specifications No KSRB 1000/2300 MOST Spec. No 1000/2300 1200mm dia. Page No. 254/ Item No. 34.16/ PWD SR 2011-12	m							
			2	15.00			30.00		
							30.00	5945.40	178362.00
	Basic Rate	5,505.00							
	Area Weightage 8%	440.40							
		5,945.40							
10	KSRRB 300-53 Construction of embankment with approved material Gravel/Murrum with all lifts and leads transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications (which includes cost of gravel , murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305, Page No. 133/ Item No. 19.60/ PWD SR 2011-12								
			1	43.00	13.00	4.00	2236.00		
							2236.0	146.88	328424.00
	Basic Rate	136.00							

	Area Weightage 8%	10.88							
		146.88							
11	KSRRB M400-6.1 Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per Specifications. A. Plant Mix Method. close graded granular sub-base Material as per 400-1 Page No. 163/ Item No. 20.4.1/ PWD SR 2011-12	Cum							
	Geleyarabalaga Main road		1	74.00	13.00	0.15	144.30		
							144.30	983.88	**141974.00**
	Basic Rate	911.00							
	Area Weightage 8%	72.88							
		983.88							
12	KSRRB M400-17. Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam Specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per Specifications.MORTH Specification No. 406 Page No. 166/ Item No. 20.18/ PWD SR 2011-12	Cum							
	Geleyarabalaga Main road		1	74.00	13.00	0.20	192.40		
							192.40	1060.56	**204052.00**
	Basic Rate	982.00							
	Area Weightage 8%	78.56							
		1,060.56							
13	KSRRB 500-4. Providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2 kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut back M.C-70 or any other bitumen mixed with diesel at 10kg per 10sqm heated in bitumen boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries Complete as per Specifications. MORTH Chapter 5 Page No. 171/ Item No. 21.4/ PWD SR 2011-12	Sqm							
	Geleyarabalaga Main road		1	74.00	13.00		962.00		
							962.00	66.95	**64405.00**
	Basic Rate	61.99							
	Area Weightage 8%	4.96							
		66.95							

14	KSRRB M500-10: Tack coat: Providing and laying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/Granular surface cleaned with mechanical broom. Complete as per specifications. MORTH Specification No. 503 using bitumen emulsion Page No. 172/ Item No. 21.10/ PWD SR 2011-12	Sqm							
	Qty Vide Item No-15						**962.00**	11.08	**10660.00**
	Basic Rate	10.26							
	Area Weightage 8%	0.82							
		11.08							
15	KSRRB M500-11: Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base/binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75 mm compacted thickness with 80/100 Grade bitumen but excluding cost of primer/ tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 172/ Item No. 21.11.1/ PWD SR 2011-12	Cum							
	Seleyarabalaga Main road		1	74.00	13.00	0.05	48.10		
							48.10	6162.11	**296398.00**
	Basic Rate	5,705.66							
	Area Weightage 8%	456.45							
		6,162.11							
16	KSRRB M500-15: Providing and laying semi dense bituminous concrete 25-30mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No. 500.8 complete in all respects as per specifications. With 80/100 grade bitumen Page No. 175/ Item No. 21.20.1/ PWD SR 2011-12	Cum							
	Seleyarabalaga Main road		1	74.00	13.00	0.025	24.05		
							24.05	8882.32	**213620.00**
	Basic Rate	8,224.37							
	Area Weightage 8%	657.95							
		8,882.32							

17	KSRRB 40.1.3. Carriage of mixed materials 10 kms Page No.182, PWD SR 2011-12)	Cum							
	Qty Vide Item No=12+15+16						264.55	53.19	14071.00
	Basic Rate	49.25							
	Area Weightage 8%	3.94							
		53.19							
18	Disposal of debris to the final place of disposal with all load and lift and as direction by the engineer in charge of the work, lead 10 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 62.20 (P 147 I.18.57/1)	Cum							
	Qty Vide Item No=1+2						711.00		
	Qty Limited to						711.00	94.82	67420.00
	Basic Rate	25.60							
	Loading and Unloading Charges	62.20							
		87.80							
	Area Weightage @ 8%	7.02							
	Total	94.82							
19	Miscellaneous and unforseen Charges								37.00
								Total	4800000
	(Rupees Fortyeight Lakhs Only)								

CERTIFICATE

1. The Work spot has been inspected and the work found to be necessary
2. The Estimate is prepared as per the PWD SR 2011-12
3. The Provision made in estimate are adequate and essential
4. This area comes under BBMP limits.

Asst Engineer
Ward No. 12

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

A/S

JC(D) AS/201/12-13 Date : 26/06/2012
48.00 Lakhs (Rupees forty Eight Lakhs only)
P. No. 135
Sl. No. 201

ನಂ.CE/PS/15/2012-13 ದಿನಾಂಕ : 29/06/12
ರೂ. 48.00 Lakh (Rupees Forty Eight Lakh only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿ

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಧೀಕ್ಷಕರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

Approved by WC No. ಬಿಂಗಿಸ್ಥಾನ/23/12-13,
dated 02/06/2012.